

Quiz 12 Review: Arithmetic Sequences and Series Date _____ Period _____

Find the common difference and write the explicit formula in simplified form. $A_n = A_1 + (n-1) \times d$

1) 29, 36, 43, 50, ...

2) 15, 19, 23, 27, ...

3) -27, -47, -67, -87, ...

Find the explicit formula in simplified form and the nth term indicated.

4) 5, -3, -11, -19, ...

Find a_{31}

5) 21, 121, 221, 321, ...

Find a_{34}

6) 36, 43, 50, 57, ...

Find a_{26}

Evaluate the related series of each sequence. $A_n = n/2 (A_1 + A_n)$

7) 17, 20, 23, 26, 29

8) 43, 52, 61, 70

9) -25, -32, -39, -46, -53, -60, -67